WORX®

SAFETY AND OPERATING MANUAL

3 in 1 Cordless lawn mower **WG780E**

GENERAL POWER TOOL SAFETY WARNINGS

WARNING: Read all instructions when using electric gardening appliances. Basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.

Save all warnings and instructions for future reference.

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

TRAINING

a) Read the instructions carefully. Be familiar with the controls and the proper use of the equipment;
b) Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations can restrict the age of the operator;
c) Never mow while people, especially children, or pets are nearby;
d) Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

PREPARATION

a) While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals;
b) Thoroughly inspect the area where the equipment is to be used and remove all objects which can be thrown by the machine;
c) Before using, always visually inspect to see that the blade, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance;

OPERATION

a) Mow only in daylight or in good artificial light;
b) Avoid operating the equipment in wet grass, where feasible;
c) Always be sure of your footing on slopes;
d) Walk, never run;
e) For wheeled rotary machines, mow across the face of slopes, never up and down;
f) Exercise extreme caution when changing direction on slopes;
g) Do not mow excessively steep lopes;
h) Use extreme caution when reversing or pulling the lawnmower towards you;
i) Stop the blade if the lawnmower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawnmower to and from the area to be mowed;
j) Never operate the lawnmower with defective guards, or without safety devices, for example deflectors and/or grass catchers, in place;
k) Switch on the motor carefully according to instructions and with feet well away from the blade;
l) Do not tilt the lawnmower when switching on the motor, except if the lawnmower has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part which is away from the operator;
m) Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times;
n) Not to touch the blades before the disabling device has been removed and the blades have come to a complete stop;
o) To remove the disabling device
- Whenever leaving the machine unattended,
- Before clearing a blockage,
- Before checking, cleaning or working on the machine,
- After striking a foreign object,
- Whenever the machine starts vibrating abnormally.

MAINTENANCE AND STORAGE

a) Keep all nuts, bolts and screws tight to be sure the equipment is in safe working

condition;
b) Check the grass catcher frequently for wear or deterioration;
c) Replace worn or damaged parts for safety;

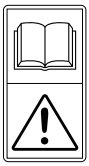
BATTERY TOOL USE AND CARE

1) **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
3) **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
4) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

ADDITIONAL SAFETY INSTRUCTIONS FOR YOUR BATTERY CHARGER

1. Before charging, read the instructions.
2. For charge Lead acid battery pack only.
3. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
4. The battery terminal not connected to the chassis has to be connected first. The other connection is to be made to the chassis, remote from the battery and fuel line. The battery charger is then to be connected to the supply mains.
5. After charging, disconnect the battery charger from the supply mains. Then remove the chassis connection and then the battery connection.
6. Do not charge a leaking battery.
7. Do not use chargers for works other than those for which they are designed.
8. Before charging, ensure your charger is matching the local AC supply.
9. The charging device must be protected from moisture.
10. Do not use the charging device in the open.
11. Do not short out the contacts of battery or charger.
12. Respect the polarity "+/-" when charging.
13. Do not open the unit and keep out of the reach of children.
14. Do not charge the batteries of other manufactures or ill-suited models.
15. Ensure that the connection between the battery charger and battery is correctly positioned and is not obstructed by foreign bodies.
16. Keep battery charger's slots are free of foreign objects and protect against dirt and humidity. Store in a dry and frost-free place.
17. When charging batteries, ensure that the battery charger is in a well-ventilated area and away from inflammable materials. Batteries can get hot during charging. Do not overcharge any batteries. Ensure that batteries and chargers are not left unsupervised during charging.
18. Do not recharge non-rechargeable batteries, as they can overheat and break.
19. Longer life and better performance can be obtained if the battery pack is charged when the air temperature is between 18°C and 24°C. Do not charge the battery pack in air temperatures below 4.5°C, or above 40.5°C. This is important as it can prevent serious damage to the battery pack.

SYMBOLS

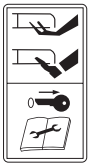


Read instruction handbook before operation this machine.

Warning

Keep bystanders away

Blade continues to rotate after the machine is switched off. Wait until all machine components have completely stopped before touching them.



Beware of sharp blades. Blades continue to rotate after the motor is switched off.

Remove disabling device before maintenance.

Do not expose to rain or water

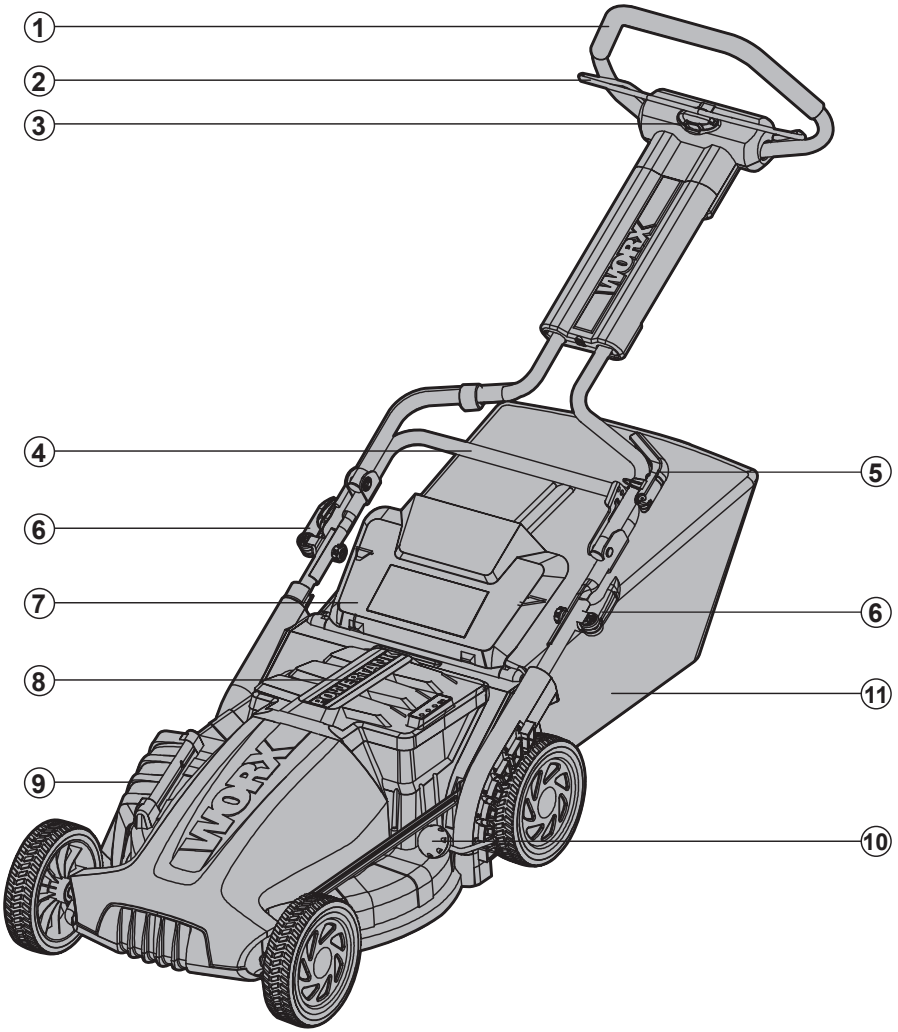
Do not burn

Do not dispose of batteries. Return exhausted batteries to your local collection or recycling point.

Contains Pb battery. Battery must be recycled or disposed of properly.

C-Tick approval mark

Only use the battery charger indoors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1.	UPPER HANDLE
2.	SWITCH LEVER
3.	SAFETY KEY
4.	LOWER HANDLE
5.	HANDLE HEIGHT ADJUSTMENT LEVER
6.	LOCK CAM LEVER
7.	SAFETY GUARD
8.	BATTERY HOUSING COVER
9.	SIDE-DISCHARGE COVER
10.	CUTTING HEIGHT ADJUSTMENT LEVER
11.	GRASS COLLECTION BAG
12.	MULCH INSERT (See K1)
13.	SIDE-DISCHARGE INSERT (See L1)
14.	SCREW KNOB (See C)
15.	BATTERY PACK *(See B)
16.	CHARGER *(See B)

*** Not all the accessories illustrated or described are included in standard delivery.**

TECHNICAL DATA

Rated power	24 V⎓
Rated no load speed	3500/min
Cutting diameter	46cm
Front wheel diameter	178mm
Rear wheel diameter	210mm
Cut height	38 – 88mm
Cutting height positions	6
Grass collection capacity	55L
Battery capacity	17Ah
Battery type	Lead acid
Battery model	WA0032
Charging time	16hrs
Charger model	WA3718
Charger part no.	QL-09005-B2401500F
Charger rating	Input: AC 100-240V, 50/60Hz, 1.5A, Output: 24Vdc, 1500mA
Machine weight	36.5kg

ACCESSORIES

Side-discharge insert **1**
Battery pack **1**
Grass collection bag **1**
Mulching insert **1**
Charger **1**
Safety key **1**

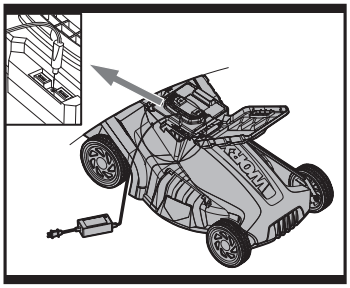
We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

INTENDED USE

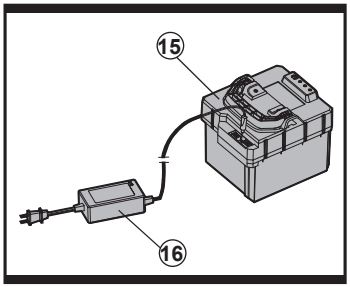
This product is intended for domestic lawn mowing.

CHARGER SAFETY RULES

1. Plug charger directly into an electrical outlet. **DO NOT ABUSE THE CORD.** Never carry charger by cord. Do not disconnect the charger from the outlet or mower by pulling it by the cord.
2. **CAUTION:** To reduce the risk of fire, electrical shock, or personal injury do not attempt to use this charger with any other product.
   Likewise, do not attempt to charge the mower with any other charger.
3. Do not service mower with charger or safety key installed.
4. Do not operate a damaged charger. Replace damaged cords or charger immediately at an authorized WORX service depot.
5. Always charge the mower in a dry area protected from the weather. Do not expose the mower or charger to rain. Do not charge in wet locations. Do not charge mower when temperature is above 104°F (40°C) or below 41°F (5°C).
6. Keep the mower and charger away from water, heat sources, (Such as radiators, heaters, stoves... etc.) flames, or chemicals. Be careful not to damage the charger cord, by keeping cord away from sharp edges.



A



B

CHARGING PROCEDURE

1. Charging can be carried out either with the battery FITTED (See A) or REMOVED from the machine (See B).
2. Plug the charger connector into the receptacle on the battery.
3. Insert the plug of the charger into the wall receptacle.
4. The red light on the charger should come on indicating that you have power and the battery is being charged. The red light should extinguish and the green light will come on when charging is complete (approximately 16 hours to charge a fully discharged mower).

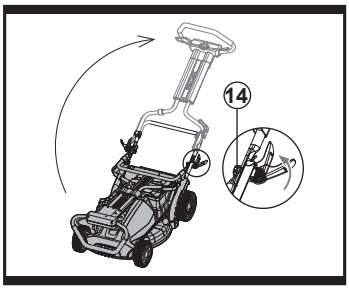
NOTE: Remove the safety key before charging the battery in the machine.

BATTERY CARE

The battery in your cordless lawnmower is a 24-volt sealed lead acid system. The mower can be stored in any position without fear of leakage.

- For optimal battery life and performance the battery should be fully charged every 2 months during storage
- For optimal battery life and performance the battery should be fully charged after each use
- Store the battery in a cool dry location.
- The battery can be safely stored down to - 4°F (-20°C).
- The battery does not need to be fully discharged before recharging.
- Initially 2 to 3 charging cycles may be required after purchase to achieve maximum run time capacity.

ADDITIONAL BATTERIES can be obtained from the customer helpline.



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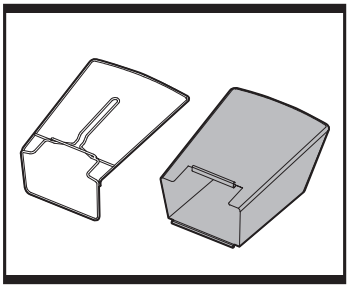


D1

ASSEMBLY/ADJUSTMENT

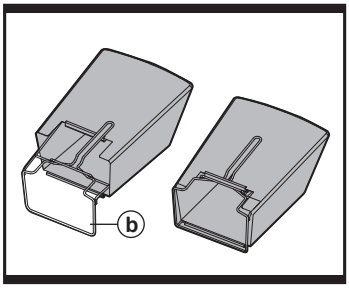
WARNING! Do not connect the battery and/or the safety key before product is completely assembled.

1. ASSEMBLING THE HANDLE (See C)

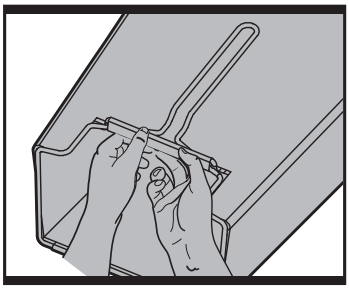
Raise the handle section into place and secure by tightening the two Lock cam levers.
Check that the handle is FULLY secured.
The cam lever pressure can be adjusted by adjusting the screw knob (14) clockwise/counter-clockwise. DO NOT OVERTIGHTEN

2. ASSEMBLING THE GRASSBAG (See D1, D2 & D3)

1) Before starting to assemble the grass bag to the frame (b), check that the grass bag is positioned to slip over the frame.
2) Slide the grass bag onto the frame.
3) Assemble the top clips to the frame, then assemble the two side clips and the bottom clip last.



D2



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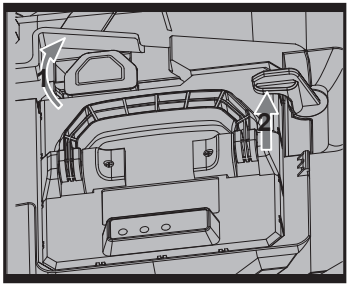
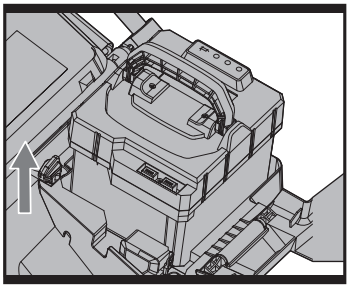
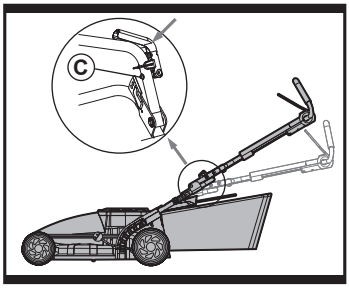


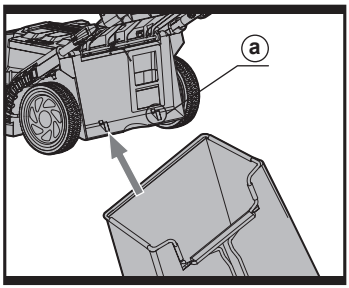
E1



E2



F



G1

3. FITTING/REMOVING BATTERY (See E1, E2)

REMOVING BATTERY

Pull out the battery connector, then rotate the battery locking knob counter-clockwise and then use the battery handle to remove the battery.

NOTE: Be careful not to drop the battery onto your foot or on the ground when removing it.

FITTING BATTERY

Put the battery into the battery container, press the battery connector and then rotate the battery locking knob.

4. HANDLE ADJUSTMENT (See F)

The upper handle can be adjusted to 3 different height positions. Release the locking cam lever, set the upper handle to one of the three height positions, and make sure to insert the pin (c) into the hole. Then reset the locking cam lever.

NOTE: Always check that the upper handle is fixed firmly.

5. INSTALLING THE GRASS BAG (See G1, G2 & G3)

FITTING

1) Turn the mower off, wait until blade stops and remove safety key.
2) Raise the safety flap and hold it up, ensure that the mulching insert has been removed.
3) Pick up the grass bag by the handle, and position grass bag on the lower hooks (a) on the mower deck.
4) Release the safety guard to lock the grass bag into position. Ensure the grass bag is installed securely.

NOTE: Depress the grass bag slightly to ensure that it is completely installed.

REMOVING/EMPTYING

Lift the safety guard and hold it up. The grass bag will drop automatically.

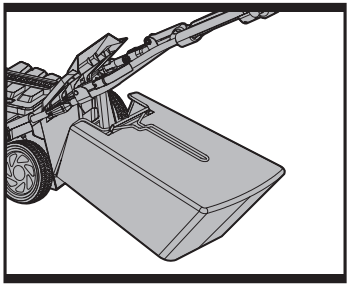
6. ADJUSTING THE CUTTING HEIGHT (See H)

WARNING! Stop, release switch lever and wait until the motor stops before adjusting height. The blades continue to rotate after the machine is switched off, a rotating blade can cause injury.

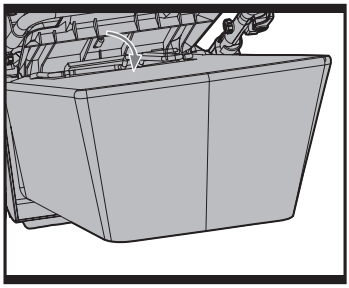
CAUTION: Do not touch rotating blades.

For the first cutting of the season, a high cutting adjustment should be selected.

The lawnmower can be set to 6 cutting heights between 38mm and 88mm. For this purpose, move the cutting height adjustment lever outwards then adjust to the preferred position.



G2



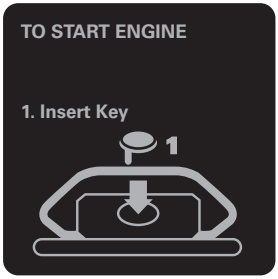
G3

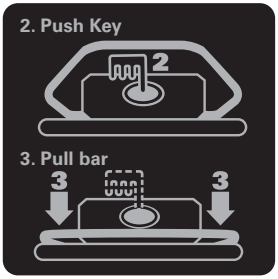
OPERATION

1. STARTING AND STOPPING (See I)

WARNING! The blade continues to rotate for a few seconds after the machine is switched off. Allow the motor/blade to stop rotating before switching "on" again. Do not rapidly switch off and on.

STARTING

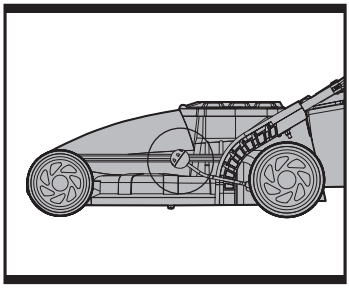




1) Insert safety key into the housing of the switch box.
2) Push down the key, until safety key is fully seated inside housing.
3) Press and hold the safety key, squeeze the switch lever bar towards the handle and the mower will start.
4) Release the safety key.

STOPPING

Release the switch lever bar.



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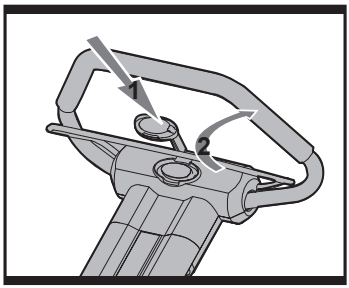

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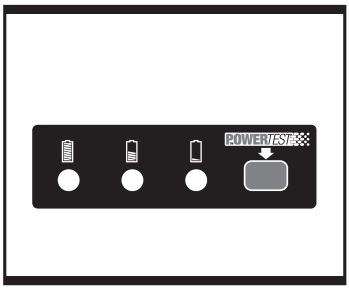

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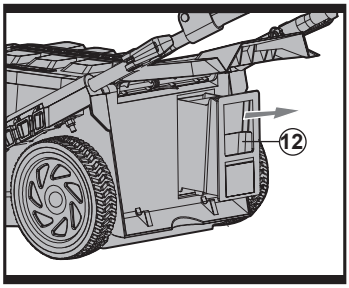
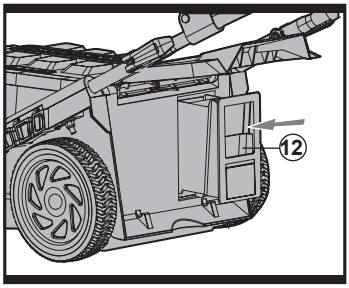


K1



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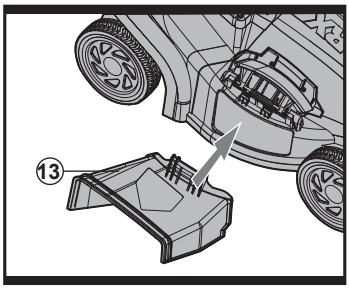


L1

2. BATTERY STATUS LED'S (See J)

NOTE: Battery Status LED's are not active in charging mode. The Status LED's will indicate the battery condition when the button on the battery is pressed.

The LED's constantly senses and displays the battery condition as follows:

Press the button "POWERTEST", the light button is illuminated.

When the three green lights are illuminated, the battery is in a highly charged condition.

When two lights ( ) are illuminated, the battery is in a moderately charged condition.

When only one green light ( ) is illuminated, the battery charge is depleted.

Before using your new mower for the first time, it is recommended that the unit be charged overnight to ensure that the battery is fully charged.

IMPORTANT

When only one light is illuminated, your battery is overly discharged, even though the mower may still be capable of cutting grass. Continuing to operate your lawnmower with the battery in this discharged condition may reduce the life and performance of your battery.

3. REMOVING MULCH INSERT (See K1)

To remove the mulching insert so that you can bag the grass or discharge with the optional discharge chute, follow the steps listed below:

1) Shut the mower off, wait until the blade stops and remove the safety key.
2) Raise the safety guard and hold it up.
3) Grasp the middle of the insert, lift and pull out the mulching insert completely.
4) The safety guard is spring loaded. When you release it, the guard will return to the closed position.

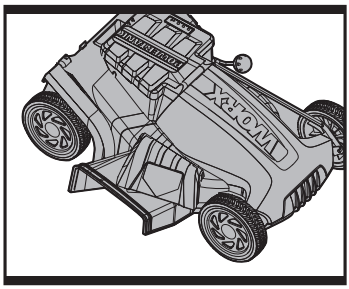
4. INSTALLING MULCH INSERT (See K2)

1) Turn the mower off, wait until the blade stops and remove the safety key.
2) Raise the safety guard and hold it up.
3) Slide the mulching insert into the discharge opening until it is firmly in contact with the deck.
4) Release safety guard and ensure it is properly closed.

5. SIDE-DISCHARGE COVER (See L1 & L2)

Using the mulching insert and side-discharge insert, the grass can be discharged from the side- discharge of the

machine.
To assemble the side-discharge, raise the side-discharge cover and hold it up, position the side-discharge onto the hooks, then release the cover to lock the side-discharge into position.



L2

6. MOWING TIPS

NOTE: Always inspect area where mower is to be used and remove all stones, sticks, wire, metal and other debris which might be thrown by the rotating blade.

1) Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always maintain good footing.
2) Release switch lever to turn mower "OFF" when crossing any graveled area (stones can be thrown by the blade).
3) Set mower at highest cutting height when mowing in rough ground or in tall weeds. Removing too much grass at one time can cause circuit breaker to trip, which stops mower.
4) If a grass bag is used during the fast growing season, the grass may tend to clog up at the discharge opening. Release switch lever to turn mower "OFF" and remove the safety key. Remove the grass bag and shake the grass down to the back end of the bag. Also clean out any grass or debris which may be packed around the discharge opening. Replace the grass bag.
5) If mower should start to vibrate abnormally, release switch lever to turn mower "OFF" and remove safety key. Check immediately for cause. Vibration is a warning of trouble. Do not operate mower until a service check has been made.
6) **Always release switch lever to turn mower "OFF" and remove safety key when leaving it unattended even for a short period of time.**

7. MULCHING MOWING TIPS

While mulching, your new mower is designed to cut the grass clippings into small pieces and distribute them back into the lawn. Under normal conditions, the mulched grass will biodegrade quickly to provide nutrients to the lawn.
Please review the following recommendations for optimum mulching performance.

1) Avoid mowing when the grass is wet from rain or dew. Wet grass may form clumps which interfere with the mulching action and reduce runtime.

The best time to mow grass is in the late afternoon when the grass is dry and the newly cut area will not be exposed to direct sunlight.

2) For best mulching performance, set the cutting height to remove about one third of the grass blade length, ideally no more than 38mm at one time. If the lawn is overgrown, it may be necessary to increase the cut height to reduce the pushing effort and prevent overloading the motor. For extremely heavy mulching, it is advisable to first cut at a high cut height setting, and then re-cut to the final cut height. Otherwise, make narrower cuts and mow slowly.
3) For best performance, keep the mower housing free of built-up grass. From time to time turn off mower and wait for the blade to come to a complete stop. Then unplug the safety key and turn mower on its side. Using an object such as a stick, wipe out any accumulation of grass in the blade area. Be careful of the sharp edges of the blade. Clean often in wet, new grass, and always after every use.
4) Certain types of grass or grass conditions may require that an area be mulched a second time to fully disperse the grass throughout the lawn. If cutting a second time, it is advisable to cut perpendicular (across) the first cut pattern. DO NOT CHANGE CUT PATTERN IN ANY WAY THAT WOULD CAUSE MOWING DOWN A HILL.
5) Change your cutting pattern from week to week. This will help prevent matting and graining of the lawn.

MAINTENANCE

WARNING: Stop the mower and remove the safety key before removing the grass bag.

NOTE: To ensure long and reliable service, perform the following maintenance procedures regularly. Check for obvious defects such as a loose, dislodged or a damaged blade, loose fittings, and worn or damaged components. Check that the covers and guards are all undamaged and are correctly attached to mower. Carry out any necessary maintenance or repairs before operating mower. If the mower should happen to fail despite regular maintenance, please call our customer helpline for advice.

BLADE SHARPENING

KEEP BLADE SHARP FOR BEST MOWER PERFORMANCE. A DULL BLADE DOES NOT CUT GRASS CLEANLY OR MULCH PROPERLY.

WEAR PROPER EYE PROTECTION WHILE REMOVING, SHARPENING, AND INSTALLING BLADE. ENSURE THAT SAFETY KEY IS REMOVED.
Sharpening the blade twice during a mowing season is usually sufficient under normal circumstances. Sand causes the blade to dull quickly. If your lawn has sandy soil, more frequent sharpening may be required. REPLACE BENT OR DAMAGED BLADE IMMEDIATELY.

WHEN SHARPENING THE BLADE:

1. Make sure blade remains balanced.
2. Sharpen blade at the original cutting angle.
3. Sharpen cutting edges on both ends of blade, removing equal amounts of material from both ends.

TO SHARPEN BLADE IN A VISE (See M)

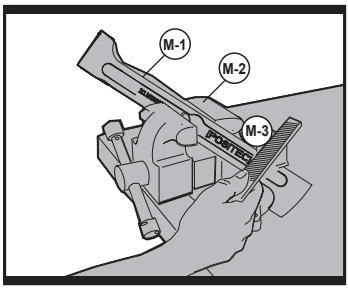
1. Be sure the switch lever is released, the blade has stopped and the safety key removed before removing the blade.
2. Remove blade from mower. See instructions for removing and attaching blade.
3. Secure blade M-1 in a vise M-2.
4. Wear safety glasses and be careful not to cut yourself.
5. Carefully file the cutting edges of the blade with a fine tooth file M-3 or sharpening stone.
6. Check balance of blade. See instructions for blade balancing.
7. Replace blade on mower and tighten securely. Refer to instructions below.

BLADE BALANCING (See N)

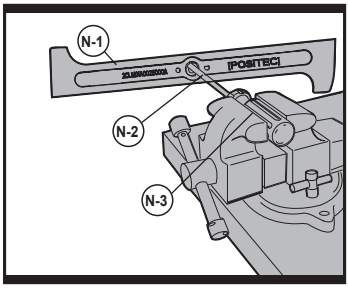
Check balance of blade by placing center hole in blade N-1 over a nail or screwdriver shank N-2, clamped horizontally in a vise N-3. If either
end of the blade rotates downward, file that end. Blade is properly balanced when neither end drops.

BLADE MAINTENANCE (See O & P)

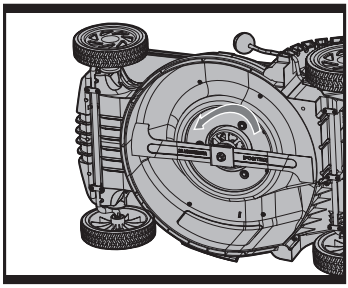
Renew your metal blade after 50 hours mowing or 2 years, which ever is the sooner-regardless of condition. Follow these procedures to remove and replace the blade. You will need garden gloves (not provided) and a spanner wrench (not provided) to remove the blade. Hold the blade (P-2) and unscrew the blade nut (P-5) counterclockwise using a spanner wrench. Remove blade nut (P-5), square washer (P-4), insulator washer (P-3), and blade (P-2).
To re-assemble, first position the blade with the cutting



M



N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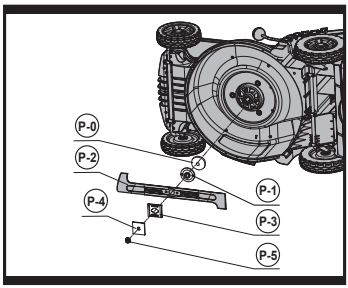

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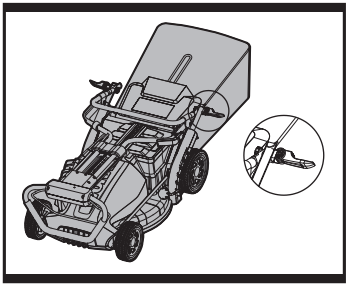

Q

edges towards the ground. Assemble the components. Ensure that the edges of the insulator washer hook over the edge of the blade. Align the flats on the square washer (P-4) with the flats on the shaft.
Then securely tighten the blade nut.
NOTE: If the blade and insulator washer (P-3) are cracked or damaged, replace with new ones.

STORAGE (See Q)

Stop the mower and always remove the safety key.
Clean the exterior of the machine thoroughly using a soft brush and cloth. Do not use water, solvents or polishes. Remove all grass and debris, especially from the ventilation slots.
Turn the machine on its side and clean the blade area. If grass cuttings are compacted in the blade area, remove with a wooden or plastic implement.
Store the machine in a dry place. Do not place other objects on top of the machine.
To aid storage, press the handle height adjustment knob, and rotate or fold the upper handle.

WORX

it's your nature

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